

# DEFAULT U-FACTOR AND SHGC LABEL CERTIFICATE FORM

## PROJECT INFORMATION

PROJECT NAME:

DATE:

PROJECT ADDRESS:

### CEC DEFAULT U-FACTOR AND SHGC LABEL CERTIFICATE (Use only for Site-Assembled Fenestration Product Lines)

Method 1 in this Default Certificate may be used for site-assembled vertical glazing installed in all non-residential buildings.

U-factors and SHGC are derived from the California Energy Commission Fenestration Default U-factors and SHGC Default Table based on data reported below.

**U-factor = \_\_\_\_\_**  
**SHGC = \_\_\_\_\_**

This Fenestration Product Line meets the air infiltration requirements of Section 116(a) 1, 2001 California Energy Efficiency Standards for Residential and Nonresidential Buildings.

## PRODUCT LINE INFORMATION (Complete a separate Default Label Certificate for each fenestration product line in the project)

Total Number of units for this product line:	_____	Total square footage of this product line:	_____
Elevation drawing page:	_____	Fenestration (window & door) schedule page:	_____
Location(s) on building: (enter appropriate orientation(s))	_____	Total Fenestration Area (ft <sup>2</sup> ) on project:	_____

### ☐ **Method 1 - DEFAULT FENESTRATION U-FACTOR AND SHGC FROM TABLES 3-10 AND 3-12 OF THE NONRESIDENTIAL MANUAL FOR COMPLIANCE WITH THE 2001 ENERGY EFFICIENCY STANDARDS**

Frame Type	<input type="checkbox"/> Metal	<input type="checkbox"/> Metal Thermal Break (or Structural Glazing)	<input type="checkbox"/> Nonmetal
U-factor Table 3-10 Product Type	<input type="checkbox"/> Operable	<input type="checkbox"/> Fixed	<input type="checkbox"/> Greenhouse, Garden Window
		<input type="checkbox"/> Door	<input type="checkbox"/> Skylight
Glazing Type	<input type="checkbox"/> Single Pane	<input type="checkbox"/> Double Pane	Default U-factor = _____ (If no adjustment, insert value in above gray box next to U-factor)
SHGC Table 3-12 Product Type	<input type="checkbox"/> Operable	<input type="checkbox"/> Fixed	
SHGC Table 3-12 Glazing Tint	<input type="checkbox"/> Clear	<input type="checkbox"/> Tint	Default SHGC = _____ (Insert default value in above gray box next to SHGC)
<b>U-Factor Adjustment (See Table 3-10, Footnote 2)</b>			
<input type="checkbox"/> Subtract 0.05 for spacers of 7/16 inch or wider			
<input type="checkbox"/> Subtract 0.05 for products certified by the manufacturer as low-E glazing.			
<input type="checkbox"/> Add 0.05 for products with dividers between panes if spacer is less than 7/16 inch wide.			
<input type="checkbox"/> Add 0.05 for products with true divided lite (dividers through the panes).			
U-Factor Adjustment = _____		(If applicable insert adjustment result in above gray box next to U-factor)	
<b>PERSON TAKING RESPONSIBILITY FOR FENESTRATION COMPLIANCE CONTACT PERSON:</b>			
Contact Person:			
Company name and address:			
Phone:	Fax:	Signature:	

**DEFAULT U-FACTOR AND SHGC LABEL CERTIFICATE FORM SAMPLE****PROJECT INFORMATION SAMPLE**

PROJECT NAME:

**RIVER CITY OFFICE**

SAMPLE

DATE:

**August 1, 2001**

PROJECT ADDRESS:

**321 North 5<sup>th</sup> St. Sacramento, CA 95814**

SAMPLE

**CEC DEFAULT  
U-FACTOR AND SHGC  
LABEL CERTIFICATE**  
(Use only for Site-Assembled  
Fenestration Product Lines)

Method 1 in this Default Certificate may be used for site-assembled vertical glazing installed in all non-residential buildings.

U-factors and SHGC are derived from the California Energy Commission Fenestration Default U-factors and SHGC Default Table based on data reported below.

**U-factor = 0.71**  
**SHGC = 0.73**

This Fenestration Product Line meets the air infiltration requirements of Section 116(a) 1, 2001 California Energy Efficiency Standards for Residential and Nonresidential Buildings.

**PRODUCT LINE INFORMATION** (Complete a separate Default Label Certificate for each fenestration product line in the project)

Total Number of units for this product line:	<b>2</b>	Total square footage of this product line:	<b>480</b>
Elevation drawing page:	<b>E-3</b>	Fenestration (window & door) schedule page:	<b>E-4, E-6</b>
Location(s) on building: (enter appropriate orientation(s))	<b>South, East, West and North</b>	Total Fenestration Area (ft <sup>2</sup> ) on project:	<b>960</b>

☐ **Method 1 - DEFAULT FENESTRATION U-FACTOR AND SHGC FROM TABLES 3-10 AND 3-12 OF THE NONRESIDENTIAL MANUAL FOR COMPLIANCE WITH THE 2001 ENERGY EFFICIENCY STANDARDS**

Frame Type	<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Metal Thermal Break (or Structural Glazing)	<input type="checkbox"/> Nonmetal		
U-factor Table 3-10 Product Type	<input type="checkbox"/> Operable	<input checked="" type="checkbox"/> Fixed	<input type="checkbox"/> Greenhouse, Garden Window	<input type="checkbox"/> Door	<input type="checkbox"/> Skylight
Glazing Type	<input type="checkbox"/> Single Pane	<input checked="" type="checkbox"/> Double Pane	Default U-factor =	<b>0.72</b>	(If no adjustment, insert value in above gray box next to U-factor)
SHGC Table 3-12 Product Type	<input type="checkbox"/> Operable	<input checked="" type="checkbox"/> Fixed			
SHGC Table 3-12 Glazing Tint	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Tint	Default SHGC =	<b>0.73</b>	(Insert default value in above gray box next to SHGC)
<b>U-Factor Adjustment (See Table 3-10, Footnote 2)</b>					
<input checked="" type="checkbox"/> Subtract 0.05 for spacers of 7/16 inch or wider					
<input checked="" type="checkbox"/> Subtract 0.05 for products certified by the manufacturer as low-E glazing.					
<input type="checkbox"/> Add 0.05 for products with dividers between panes if spacer is less than 7/16 inch wide.					
<input type="checkbox"/> Add 0.05 for products with true divided lite (dividers through the panes).					
U-Factor Adjustment = 0.72 - 0.05 - 0.05 = <b>0.71</b>			(If applicable insert adjustment result in above gray box next to U-factor)		
<b>PERSON TAKING RESPONSIBILITY FOR FENESTRATION COMPLIANCE CONTACT PERSON:</b>					
Contact Person: <b>Joe Glassguy</b>		SAMPLE			
Company name and address: <b>453 Venice Way</b>		SAMPLE			
Phone: <b>916-555-5555</b>		Fax:		Signature: <i>Joe Glassguy</i>	

# ALTERNATIVE DEFAULT U-FACTOR and SHGC LABEL CERTIFICATE

## PROJECT INFORMATION

PROJECT NAME:

DATE:

PROJECT ADDRESS:

## CEC ALTERNATIVE DEFAULT U-FACTOR AND SHGC LABEL CERTIFICATE (Use only for Site-Assembled Fenestration Product Lines)

Method 2 Alternative Default Certificate shall not be used for site-assembled vertical glazing installed in buildings with 100,000 square feet or more of conditioned floor area and 10,000 square feet or more of vertical glazing.

U-factors and SHGC are derived from the California Energy Commission Fenestration Alternative Default U-factors and SHGC Equations based on data reported below.

**U-factor = \_\_\_\_\_**  
**SHGC = \_\_\_\_\_**

This Fenestration Product Line meets the air infiltration requirements of Section 116(a) 1, 2001 California Energy Efficiency Standards for Residential and Nonresidential Buildings.

## PRODUCT LINE INFORMATION (Complete a separate Default Label Certificate for each fenestration product line in the project)

Total Number of units for this product line: \_\_\_\_\_

Total square footage of this product line: \_\_\_\_\_

Elevation drawing page: \_\_\_\_\_

Fenestration (window & door) schedule page: \_\_\_\_\_

Location(s) on building: S, N, E, W  
(Enter appropriate orientation(s)) \_\_\_\_\_

Total Fenestration Area (ft<sup>2</sup>) on project: \_\_\_\_\_

## ☐ Method 2 - DEFAULT FENESTRATION U-FACTOR AND SHGC FROM APPENDIX B, TABLE B-14 AND MANUFACTURER'S DOCUMENTATION

Product Type	<input type="checkbox"/> Glazed Wall Systems	<input type="checkbox"/> Skylight with Curb	<input type="checkbox"/> Skylight without Curb			
Frame Type	<input type="checkbox"/> Aluminum	<input type="checkbox"/> Aluminum Metal Thermal Break	<input type="checkbox"/> Wood/Vinyl	<input type="checkbox"/> Reinforced Vinyl/ Aluminum Clad Wood	<input type="checkbox"/> Structural Glazing	
Glazing Type, Glazing Thickness	<input type="checkbox"/> Single 1/8" Glass	<input type="checkbox"/> Single 1/8" Acrylic/polycarb	<input type="checkbox"/> Single 1/4" Acrylic/polycarb	<input type="checkbox"/> Double-Glass	<input type="checkbox"/> Triple Glazing	<input type="checkbox"/> Quadruple Glazing
Coating Emissivity	<input type="checkbox"/> 0.05	<input type="checkbox"/> 0.10	<input type="checkbox"/> 0.20	<input type="checkbox"/> 0.40	<input type="checkbox"/> 0.60	
Coated Surfaces	<input type="checkbox"/> 2 or 3	<input type="checkbox"/> 2, 3, 4, or 5	<input type="checkbox"/> 2 or 3 and 4 or 5			
Glazing Spacing	<input type="checkbox"/> 1/4" Airspace	<input type="checkbox"/> 1/2" Airspace				
Gas Fill between Panes	<input type="checkbox"/> Air	<input type="checkbox"/> Argon	<input type="checkbox"/> Krypton			
CEC ALTERNATIVE DEFAULT FENESTRATION U-FACTOR =	_____	From Assembly U-Factors - Appendix B, Table B-14 (Insert value in above gray box next to U-factor)				
DEFAULT SOLAR HEAT GAIN COEFFICIENT						
SHGC for Center of Glass	SHGC <sub>c</sub> =	_____	From Manufacturer's Documentation (Insert value "SHGC <sub>c</sub> " in equation below)			
Calculate SHGC Fenestration Equation from Appendix B, Table B-12 (Site-Assembled)	SHGC <sub>fen</sub> = 0.08 + (0.86 x SHGC <sub>c</sub> ) =	_____	(Insert result value in above gray box next to SHGC)			

## ATTACHED MANUFACTURED DOCUMENTATION

Manufacturer's documentation must be attached showing the Product Type, Frame Type, Glazing Type, and SHGC<sub>c</sub> information needed to determine the Default U-factor and SHGC from the Applicable Table or equation.

## PERSON TAKING RESPONSIBILITY FOR FENESTRATION COMPLIANCE CONTACT PERSON:

Contact Person: \_\_\_\_\_

Company name and address: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Signature: \_\_\_\_\_

# ALTERNATIVE DEFAULT U-FACTOR and SHGC LABEL CERTIFICATE

## PROJECT INFORMATION

## SAMPLE

PROJECT NAME:

RIVER CITY OFFICE

SAMPLE

DATE:

August 1, 2001

PROJECT ADDRESS:

SAMPLE

3212 North 5<sup>th</sup> St. Sacramento, CA 95814

## CEC ALTERNATIVE DEFAULT U-FACTOR AND SHGC LABEL CERTIFICATE (Use only for Site-Assembled Fenestration Product Lines)

Method 2 Alternative Default Certificate shall not be used for site-assembled vertical glazing installed in buildings with 100,000 square feet or more of conditioned floor area and 10,000 square feet or more of vertical glazing.

U-factors and SHGC are derived from the California Energy Commission Fenestration Alternative Default U-factors and SHGC Equations based on data reported below.

**U-factor = 0.66**  
**SHGC = 0.42**

This Fenestration Product Line meets the air infiltration requirements of Section 116(a) 1, 2001 California Energy Efficiency Standards for Residential and Nonresidential Buildings.

## PRODUCT LINE INFORMATION (Complete a separate Default Label Certificate for each fenestration product line in the project)

Total Number of units for this product line:	2	Total square footage of this product line:	480
Elevation drawing page:	E-3	Fenestration (window & door) schedule page:	E-4, E-6
Location(s) on building: (Enter appropriate orientation(s))	South, East, West and North	Total Fenestration Area (ft <sup>2</sup> ) on project:	960

## ☐ Method 2 - DEFAULT FENESTRATION U-FACTOR AND SHGC FROM APPENDIX B, TABLE B-14 AND MANUFACTURER'S DOCUMENTATION

Product Type	<input checked="" type="checkbox"/> Glazed Wall Systems	<input type="checkbox"/> Skylight with Curb	<input type="checkbox"/> Skylight without Curb			
Frame Type	<input checked="" type="checkbox"/> Aluminum	<input type="checkbox"/> Aluminum Metal Thermal Break	<input type="checkbox"/> Wood/Vinyl	<input type="checkbox"/> Reinforced Vinyl/Aluminum Clad Wood	<input type="checkbox"/> Structural Glazing	
Glazing Type, Glazing Thickness	<input type="checkbox"/> Single 1/8" Glass	<input type="checkbox"/> Single 1/8" Acrylic/polycarb	<input type="checkbox"/> Single 1/4" Acrylic/polycarb	<input checked="" type="checkbox"/> Double-Glass	<input type="checkbox"/> Triple Glazing	<input type="checkbox"/> Quadruple Glazing
Coating Emissivity	<input type="checkbox"/> 0.05	<input type="checkbox"/> 0.10	<input type="checkbox"/> 0.20	<input checked="" type="checkbox"/> 0.40	<input type="checkbox"/> 0.60	
Coated Surfaces	<input checked="" type="checkbox"/> 2 or 3	<input type="checkbox"/> 2, 3, 4, or 5	<input type="checkbox"/> 2 or 3 and 4 or 5			
Glazing Spacing	<input type="checkbox"/> 1/4" Airspace	<input checked="" type="checkbox"/> 1/2" Airspace				
Gas Fill between Panes	<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Argon	<input type="checkbox"/> Krypton			
CEC ALTERNATIVE DEFAULT FENESTRATION U-FACTOR =	0.66	From Assembly U-Factors - Appendix B, Table B-14 (Insert value in above gray box next to U-factor)				
DEFAULT SOLAR HEAT GAIN COEFFICIENT						
SHGC for Center of Glass	SHGC <sub>c</sub> =	0.40	From Manufacturer's Documentation (Insert value "SHGC <sub>c</sub> " in equation below)			
Calculate SHGC Fenestration Equation from Appendix B, Table B-12 (Site-Assembled)	SHGC <sub>fen</sub> = 0.08 + (0.86 x SHGC <sub>c</sub> ) =		0.42	(Insert result value in above gray box next to SHGC)		

## ATTACHED MANUFACTURED DOCUMENTATION

Manufacturer's documentation must be attached showing the Product Type, Frame Type, Glazing Type, and SHGC<sub>c</sub> information needed to determine the Default U-factor and SHGC from the Applicable Table or equation.

## PERSON TAKING RESPONSIBILITY FOR FENESTRATION COMPLIANCE CONTACT PERSON:

Contact Person: Joe Glassguy	SAMPLE	
Company name and address: 453 Venice Way	SAMPLE	
Phone: 916-555-5555	Fax:	Signature: Joe Glassguy